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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/537,954	06/08/2005	Gunnar Hultquist	1026-0002WOUS	5447
49698 MICHAUD-DI	7590 01/19/2007		EXAMINER	
MICHAUD-DUFFY GROUP LLP 306 INDUSTRIAL PARK ROAD SUITE 206 MIDDLETOWN, CT 06457			PALABRICA, RICARDO J	
			ART UNIT	PAPER NUMBER
	.,, 2. 00 /2 /		3663	
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SHORTENED STATUTOR	RY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
31 🗅	DAYS	01/19/2007	PAP	PER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		A 15 45 Al				
		Application No.	Applicant(s)			
		10/537,954	HULTQUIST ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Rick Palabrica	3663			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the d	correspondence address			
WHIC - Exter after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. It is period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tire 11 apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on 11 Ja	nuary 2007.				
2a) <u></u> □	This action is FINAL . 2b)⊠ This	action is non-final.				
3)	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.			
Dispositi	on of Claims					
5) 6) 7)	Claim(s) <u>15-29</u> is/are pending in the application 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) is/are rejected. Claim(s) is/are objected to. Claim(s) <u>15-29</u> are subject to restriction and/or	vn from consideration.				
Applicati	on Papers					
10)	The specification is objected to by the Examiner The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the o Replacement drawing sheet(s) including the correcti The oath or declaration is objected to by the Example.	epted or b) objected to by the factoring of the land of the land of the land of the drawing of t	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority u	ınder 35 U.S.C. § 119					
12) <u> </u>	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau see the attached detailed Office action for a list of	have been received. have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachment						
2) 🔲 Notice 3) 🔲 Inforn	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) ' No(s)/Mail Date	4)	ate			

DETAILED ACTION

1. Applicant's 1/11/07 Response to the 11/20/06 Office action is acknowledged.

Upon further review of the claims, the examiner noted that there are other species of the claimed invention that were inadvertently omitted in said Office action (see section 4 below).

Accordingly, the 11/20/06 Office action is withdrawn and replace with is one. We regret any inconvenience to the applicant.

Election/Restrictions

- 2. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - Claims 15-25, drawn to product (nuclear fuel assembly/rod), classified in class 376, subclass 409.
 - II. Claims 26-29, drawn to process (manufacturing nuclear fuel rod), classified in class 29, subclass 906.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make another and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case, the process as claimed can be used to make another and different product, e.g., a control rod filled with neutron absorbing pellets. Alternatively, the product as claimed can be made by another and materially different

pressure for the fill gas (e.g., 1 bar instead of either 2 bars or 10 bars).

process, e.g., by filling the cladding tube with inert gas only or using a slightly different

Page 3

Because these inventions are independent or distinct for the reasons given above and there would be a serious burden on the examiner if restriction is not required because the inventions have acquired a separate status in the art in view of their different classification, restriction for examination purposes as indicated is proper.

Because these inventions are independent or distinct for the reasons given above and there would be a serious burden on the examiner if restriction is not required because the inventions require a different field of search (see MPEP § 808.02), restriction for examination purposes as indicated is proper.

- 3. <u>Upon election of either invention I or II above</u>, applicant is required under 35 U.S.C. 121 to elect one of the following disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable (e.g., see claim 15 or claim 27). Currently, no claim appears to be generic to Group I and no claim appears to be generic for Group II.
 - A: Wherein the cladding tube is made of zirconium.
 - B: Wherein the cladding tube is made of zirconium-based alloy.
- 4. <u>If invention I is elected,</u> applicant is required under 35 U.S.C. 121 to elect one of the following disclosed species for prosecution on the merits to which the claims shall

Application/Control Number: 10/537,954

Art Unit: 3663

be restricted if no generic claim is finally held to be allowable. Currently, no claim appears to be generic to Group I and no claim appears to be generic for Group II.

- C: Wherein the internal pressure of the fill gas is at least about 2 bars and the
 proportion of carbon monoxide is at least about 3 volume per cent of the
 fill gas (e.g., see claim 15).
- D: Wherein the internal pressure of the fill gas is at least about 10 bars and proportion of carbon monoxide is at least about 2 volume per cent of the fill gas (e.g., see claim 19).
- 5. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions

Art Unit: 3663

unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103 (a) of the other invention.

6. Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species.

MPEP § 809.02(a).

7. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Application/Control Number: 10/537,954 Page 6

Art Unit: 3663

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rick Palabrica whose telephone number is 571-272-6880. The examiner can normally be reached on 6:00-4:30, Mon-Thurs.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jack Keith can be reached on 571-272-6878. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

RJP January 18, 2007

> RICARDO J. PALABRICA PRIMARY EXAMINER